Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

 (Currently Amended) An apparatus, comprising modulating means for performing multi-carrier modulations wherein it further comprises:

processing means for retrieving a digital value corresponding to <u>the</u> type of modulation associated with a transmission signal;

converting means converting said <u>retrieved</u> digital value <u>corresponding to the type</u> of <u>modulation associated with a transmission signal</u> to an analog signal,

amplifying means for amplifying the transmission signal, controlled by the analog signal converted from said retrieved digital value corresponding to the type of modulation associated with a transmission signal, decreasing bias current when decreasing the efficiency per bit of the digital modulation and vice versa.

- (Previously Presented) The apparatus of claim 1, further comprising signal transmitting means for wirelessly transmitting said transmission signal.
- (Previously Presented) The apparatus of claim 1, wherein said type of modulation includes one of:

bi-phase shift keyed modulation; quadrature phase shift keyed modulation; and quadrature amplitude modulation.

(Previously Presented) The apparatus of claim 1, wherein said transmitter apparatus
is part of a mobile transceiver having a battery power supply.

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 (Currently Amended) A method for controlling a transmitter apparatus, comprising: identifying and retrieving a digital value corresponding to a type of digital modulation for a transmission signal;

converting said <u>retrieved</u> digital value <u>corresponding to a type of digital modulation</u> for a transmission signal to an analog signal; and

controlling power amplification of said transmission signal using said analog signal converted from said retrieved digital value corresponding to a type of digital modulation for a transmission signal in decreasing a bias current of the amplifier when decreasing the efficiency per bit of the digital modulation and vice versa.

- (Previously Presented) The method of claim 5 further comprised of wirelessly transmitting said transmission signal.
- (Previously Presented) The method of claim 5, wherein said digital value is based on the crest factor.
- (Previously Presented) The method according to claim 5 wherein bias current is decreased when digital modulation is changed from 64 QAM 3/4 to BPSK 1/2.
- 9. (Previously Presented) The method according to claim 7 wherein it is in compliance with one of the standards belonging to the set comprising:

Hiperlan type 2;

IEEE 802.11a;

DVB-T 802.16a

10. (Previously Presented) The method of claim 5, wherein said type of digital modulation includes one of:

bi-phase shift keyed modulation;

quadrature phase shift keyed modulation; and

quadrature amplitude modulation,

11. (Currently Amended) An apparatus, comprising:

a processor for retrieving a digital value corresponding to the type of modulation associated with a transmission signal;

a digital analog converter converting said <u>retrieved</u> digital value <u>corresponding to</u> the type of modulation associated with a transmission signal to an analog signal;

a power amplifier for amplifying the transmission signal, controlled by the analog signal converted from said retrieved digital value corresponding to the type of modulation associated with a transmission signal, decreasing bias current when decreasing the efficiency per bit of the digital modulation and vice versa.

- (Previously Presented) The apparatus of claim 11, further comprising a signal transmitting element operative to wirelessly transmit said transmission signal.
- 13. (Previously Presented) The apparatus of claim 11, wherein said type of digital modulation includes one of:

bi-phase shift keyed modulation; quadrature phase shift keyed modulation; and quadrature amplitude modulation.

- (Previously Presented) The apparatus of claim 11, further comprising a modulator operative to perform a plurality of different types of digital modulation.
- 15. (Previously Presented) The apparatus of claim 11, wherein said apparatus is embodied as a mobile transceiver having a battery power supply.